

JULY
1956

- REPORT OF FIRST T.V.I. FIELD TEST ● R.D. CONTEST RULES
- CONVERTING SCR522 GENEMOTOR TO 12 VOLT OPERATION

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EDITOR:

J. G. MARSLAND, VK3NY.

ASSOCIATE EDITOR:

R. W. HIGGINBOTHAM, VK3RN.

TECHNICAL EDITOR:

K. E. PINCOTT, VK3AFJ.

TECHNICAL STAFF:

J. C. DUNCAN, VK3VZ.

D. A. NORMAN, VK3UC.

R. S. FISHER, VK3OM.

A. E. MORRISON, VK4MA

ADVERTISING REPRESENTATIVE:

BEATRICE TOUZEAU,
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WI BROADCASTS

All Amateurs are urged to keep these frequencies clear during, and for a period of 15 minutes after, the official Broadcasts.

VK3WI: Sundays, 1130 hours EST, 7145 Kc. and 2000 hours EST 59 and 144 Mc. No frequency checks available from VK3WI. Intrastate working frequency, 7135 Kc.

VK3WI: Sundays, 1130 hours EST, simultaneously on 3575 and 7145 Kc., 58.5 and 144.25 Mc. Intrastate working frequency 7135 Kc. Individual frequency checks of Amateur Stations given when VK3WI is on the air.

VK4WI: Sundays, 0800 hours EST, simultaneously on 3560 and 14345 Kc. 3560 Kc. channel is used from 0915 hours to 1915 hours each Sunday for the W.I.A. Country hook-up. No frequency checks available.

VK3WI: Sundays, 1000 hours EAST, on 7145 Kc. Frequency checks are given by VK3MD and VK3WI by arrangements on all bands to 56 Mc.

VK3WI: Sundays, 0830 hours WEST, on 7145 Kc. No frequency checks available.

VK1WI: Sundays, at 1000 hours EST, on 7145 Kc. and 3672 Kc. No frequency checks are available.

VK3WI: Sundays, 1000 hours EST, simultaneously on 3.5, 7, 14 and 144 Mc. Individual frequency checks of Amateur Stations given when VK3WI is on the air.

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EDITORIAL



THE AMATEUR IS A GENTLEMAN

When, following the Fall of Rome, the barbarian hordes enveloped the civilised world, much of the order and culture painstakingly built up over centuries was lost. The Dark Ages had arrived.

However, out of the turmoil that followed, there emerged a system of living which endeavoured to bring to men a better understanding of the problems of others. Though the strength of "ye strong right arm" was forever to be seen, the code of chivalry did much to improve the lot of men. As a result of being honourable, courteous, loyal, just and brave, the term of "Gentleman" was coined and proudly owned.

But it is a far cry from the knight on the lists at Ashby-de-la-Zouch to the Amateur in his shack in Sydney, Melbourne or elsewhere. Or is it?

Though time has passed, the term Gentleman still remains. Point number one in the Amateur's Code is "The Amateur is Gentlemanly. He never uses the air for his own amusement in such a way as to lessen the pleasure of others. He abides by the terms of his licence."

It is therefore important, that from time to time, we take stock of our actions in relation to the term "Gentleman." What of that section of the band for c.w. only? What of listening on the frequency before transmitting? What of allowing others to work that "rare one" by making a short contact?

THESE AND MANY OTHERS
ARE THE ACTIONS OF A GENTLEMAN.

FEDERAL EXECUTIVE.

THE CONTENTS

Report of the First T.V.I. Field Test	1	Amateur Call Signs	7
Book Review: "The Radio Amateur Operator's Handbook"	2	Fifty-Six Megacycles and Above	9
Converting the SCR522 Generator to 12 Volt Operation	3	DX Activity by VK3AHH	10
Watch Those Harmonics from the 56-60 Mc. Band	3	Prediction Chart for July, 1956	10
Remembrance Day Contest, 1956	5	Short Wave Listeners' Section	13
Olympic Games Activities	7	National Field Day Amended Results	14
		Federal, QSL, and Divisional Notes	15
		Correspondence	20

REPORT OF THE FIRST T.V.I. FIELD TEST

BY FIVE MEMBERS OF THE H.F. T.V.I. COMMITTEE OF N.S.W. DIVISION OF THE W.I.A.

EQUIPMENT USED

The v.h.f. receiver, built by VK2AOU, had the following circuit: 6AK5 triode connected as grounded grid amplifier (to prevent radiation by the following stage), triode 6AK5 superregenerative detector incorporating a Colpitt's hot cathode oscillator, 0-1 Ma. meter in the plate circuit (bridge) to compare field strength, 12AT7 twin triode as two-stage audio amplifier to identify signals received, and headphones.

The receiver was battery operated and portable. Ranges: 59-70 Mc. 83.4-99.7 Mc., 129-156.8 Mc., and 168-205.6 Mc.

FIRST TEST

The transmitter was the station of VK2AOU, which was described in "Amateur Radio," November, 1955, to January, 1956. On 14 Mc. and 21 Mc. it is an eight stage and on 28 Mc. a nine stage transmitter with fixed tuned band filters between the frequency multipliers and also between the driver and final. The final used a pi-tank followed by a low pass filter (described in November, 1955, "A.R.") and a multi-band antenna coupler. The transmitter was running with 100 watts input and a three element miniature beam, 44 ft. high, was connected. The sound of a clock was used for 100% modulation.

14 Mc. Tests: Near the transmitter the harmonics were weaker than the output of a small g.d. meter. With the p.a. off, nothing was heard in other rooms or underneath the beam. The next check was made outside the house, 20 yards away from the transmitter and beam. The only harmonics heard in the range covered by the receiver were the 5th and the 6th.

The 5th was right in the noise of the receiver and had only 0.05 times the field strength of the Sydney 92.1 Mc. v.h.f. i.m. transmitter.

The 6th harmonic was near the v.h.f. taxi signals which were not disturbed by the harmonic, because the taxi stations were much stronger. This 6th harmonic had about 0.1 times the field strength of the f.m. radio station.

There were no harmonics on higher frequencies or within t.v. channels. Even the 6th harmonic disappeared 50 yards away from the transmitter.

Further tests showed that the directivity of the beam had no effect on the harmonic radiation.

28 Mc. Test: The second check was carried out with the transmitter running on 28 Mc. Outside the house, 20 yards away from the transmitter, the third harmonic had the same strength as the f.m. radio station, but this signal was outside any t.v. channel, and Sydney t.v. stations will have a 10 to 30 times greater effective radiated power working from nearly the same location. The distance between the f.m. station and our test location was about 11 miles. There was no direct line of sight to the f.m. transmitter.

There were no higher order harmonics available outside the house (5th, 6th and 7th for example). The 2nd and 4th harmonics were not covered by this receiver.

The beam was two wave lengths from and parallel to the mains line, and this was apparently the reason why the third harmonic was detected weakly in the receiver noise for about 50 yards. The last signs disappeared at a distance of 100 yards. This happened also as soon as the car went in a side lane away from the mains line.

The low pass filter was later removed and the receiver meter was reading 100 times the field strength of the third harmonic in front of the house, as could be expected.

Conclusion: This Amateur Station is not likely to cause t.v.i. due to harmonic radiation. The suppression of harmonics is in the order of 100 db. or more. Even this very simple receiver, with only one tuned circuit, was not overloaded by the transmitter.

A short rod was used as the receiver antenna, about 6 feet above ground. Therefore the very much stronger t.v. stations should give satisfactory reception with indoor antennae near this location over a distance of 11 miles. Any interference resulting from the operation of this Amateur Station must be therefore the result of faulty t.v. receiver design (chassis not shielded, insufficient front-end rejection of signals near the t.v. i.f., 28-30 Mc. Amateur signals), or faulty t.v. set alignment.

It is entirely the responsibility of the t.v. set manufacturer and/or the service man to fix the trouble.

SECOND TEST

The transmitter was the uncompleted new station of VK2FA. The essential t.v.i. proofing additions are not yet incorporated. It is a commercial v.f.o., driver with Gecoso pi-tank circuit, p.a. with pi-tank circuit, with a full size two element beam. The transmitter was shielded and then placed in a further shielding cabinet.

Again no harmonics were heard outside the house with the p.a. stage off. The distance to the f.m. radio station was only 5 1/2 miles, and there was nearly a direct line of sight, therefore the field strength was about 100 times stronger than at VK2AOU's place (Beverly Hills). The meter of the receiver has a logarithmic sensitivity in this super-regen. operation manner, as was found with a calibrated signal generator. A signal just visible on the meter (in the receiver noise) gave 6° deflection with 10 times and 12° deflection with 100 times the input voltage.

Working on 14 Mc. only, the result was: Harmonics below the 6th were not covered by the receiver (fundamental near 14.3 Mc.) The 6th had about 1,000 times the field strength as of VK2AOU's transmitter, and was equal to the f.m.

station, a result which must be expected because the antenna coupler may reduce the harmonics by 20 db. at least, and the low pass filter by a further 40 to 60 db.

The 7th harmonic of VK2FA's transmitter was only 0.05 times as strong as the 6th. No higher order harmonics were detected. There was a weak signal from this transmitter near 61 Mc. which must have been a mixing product of the 4th harmonic plus the fairly strong 3.5 Mc. signal of the v.f.o., because this type of v.f.o. has a high output, but not much selectivity, and the two pi networks are not sufficient. The 7th harmonic disappeared at a distance of 150 to 200 yards. The 6th harmonic was just no longer heard at a distance of 350 to 400 yards.

This test was on a road which was about level with the beam, whilst on the low side of the road 100 yards were enough to make the 6th harmonic unheard.

Conclusion: The selectivity of the v.f.o. should be increased to prevent all harmonics of the 3.5 Mc. v.f.o. reaching the driver and p.a. An antenna coupler and a low pass filter will have to be added as is intended. A three section low pass filter may be sufficient for a 100 watt input transmitter. But even with the transmitter as it is now, at five miles distance with nearly a line of direct sight to the t.v. location, the t.v. signal may be strong enough to prevent t.v.i.

It may be mentioned that the 2nd harmonic of a taxi v.h.f. station, which was 1 1/2 miles away, was just as strong as the 6th harmonic of VK2FA's transmitter 50 yards away from his station. The taxi station's 2nd harmonic was near 168 Mc.

Driving through Sydney and suburbs several tests were made to see the variation of the strength of f.m. radio and taxi stations. The interference from trams and some cars was very bad on the main roads.

—Hans Ruckert, VK2AOU.

— . . . —

BOOK REVIEW

THE RADIO AMATEUR OPERATOR'S HANDBOOK

This is quite a useful little publication, a wealth of information is contained in the 48 pages.

It contains lists of prefixes, zones, call areas, Q and Z codes, and QSL Bureaux along with some sound advice on operating technique. In the words of the preface, "A copy in your shack will save much time." Both licensed operators and s.w.l.s. will find this a very useful publication. It should be noted that the addresses for the VK3, VK5, and VK7 QSL Bureaux have, since publication, been changed.

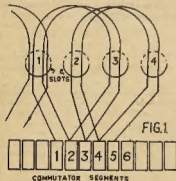
Our copy direct from Data Publications Ltd., 57 Maida Vale, London, W.9. Price 3/- Stg.

Converting the SCR522 Genemotor to 12 Volt Operation

BY N. C. WHITE,* VK5ZAW

A 12 volt genemotor was required for portable work on 144 Mc. by the writer, and that person, not having the necessary to purchase the correct article, studied the various advertisements for the easiest 24v. supply to convert. The SCR522 supply was available for a mere pittance and its output most suitable for portable work. A complete unit was purchased knowing full well that if it didn't work, enough copper was present to recoup financial losses.

Examination of the armature in the motor portion showed that there were twice as many segments in the commutator as number of slots in the armature laminations, this indicating four windings per slot (see Fig. 1). As it was necessary to get the same output with decrease in voltage input, it was realised that by selecting the two windings passing through the slot together and paralleling the ends, it would be possible for the armature to be converted without re-winding. This paralleling of the coils, doubled the current input thereby giving the necessary power to maintain correct output.

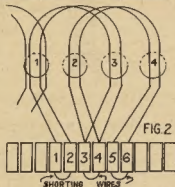


It will be seen from Fig. 1 that the two windings in slot 1 are connected in series by means of commutator segments 1, 2 and 3, and that this process is carried on right through the armature windings. If the ends of the windings were arranged as in Fig. 2, and the segments of the commutator shorted (e.g. 1 and 2, 3 and 4, 5 and 6) you would then have the armature conversion completed for 12v. operation. No other winding in the armature need be altered in any way.

The brushes were found to be quite capable of carrying the extra current and brush alignment is OK.

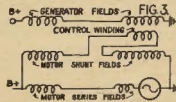
On investigating the fields several discoveries were made, namely, that the motor windings were compound wound and that the series fields were differentially polarised to the shunt field. As

there are only three turns in each series field, they are easily altered to accumulative polarisation by merely changing over the ends. By paralleling the series and shunt fields, it will be seen that the correct flux density of the field poles will be maintained.



The small winding in series with the shunt field (Fig. 3) is a form of control wound in with one of the windings of the generator field. The generator field windings develop like poles and therefore cancel out each other, so it can be seen how this control winding, by varying the flux density of one winding, will regulate the output of the genemotor.

This is very nice for 24v. operation, now how about 12v.? The obvious move is to leave this control winding disconnected (do not short its ends together) and then connect the two generator field windings in parallel as shown in Fig. 4, making sure that the winding ends are connected so as unlike poles are developed.

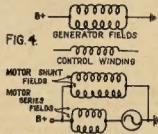


The voltage regulator can be discarded and a variable resistance of approximately 10 ohms (20 watt rating) inserted in the generator field. This is recommended as different equipment of varying loads and voltages are likely to be connected to the supply and complete control of output is necessary.

The relay can be dispensed with as it consumes current and a large current carrying switch substituted.

The filter system needs no alterations, as it was found on test that the genemotor on 12v. ran very close to its recognised speed.

As no suitable loads were available at the time of testing, globes of various wattages were connected. The largest, a 200w. 250v., was lit to full brilliance. It was also found that with the generator field disconnected, a 60w. lamp lit to 80%. No load voltage was 340v. and voltage dropped to approximately 260v. when the 200w. lamp was connected.



All diagrams show only field and armature windings altered, other windings are dispensed with for simplicity.

Go to it fellows, this unit is really worth the trouble to convert.

WATCH THOSE HARMONICS FROM THE 56-60 Mc. BAND

Editor "A.R." Dear Sir,

Now that the 56-60 Mc. band is officially an Amateur band, may I point out the possible effects of second harmonic radiation when operating in this band.

The Visual-Aural Ranges operated by the Department of Civil Aviation operate on six frequencies, namely 109.5, 109.9, 110.3, 112.1, 112.5, 113.3 Mc., also ground to air communication frequencies are 118.1, 118.3, 119.7, 121.7, 122.1, 122.9 Mc.

As can be seen the danger frequencies in the 56-60 Mc. band are 56.05, 56.25, 56.65, 59.05, 59.15, 59.85 Mc. The bandwidth of aircraft receivers is up to 50 Kc. wide, so this would increase further the number of possible interfering frequencies.

The effect of interference on the V.A.R. receiver may be such as to give an incorrect course indication and at the same time, the cause not be apparent to the pilot, and even worse still, if the incorrect course is not noticed, it could be highly dangerous.

It would be to the benefit of all Amateurs operating on 5 metres to reduce if possible all harmonic radiation, and thus prevent any unnecessary trouble.

—P. D. FRITH, VK7FP.

* 3 Derwent Street, Cumberland Park, S.A.

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- Small — compact — lightweight — durable.
- Will not blast from close speaking.
- Precision engineering ensures realistic reproduction and high output with long life and dependable operation.

- The only unit available with a genuine sintered metal filter.
- Good high frequency response ensures excellent speech reproduction.
- Aluminium diaphragm mechanically protected and frequency controlled by "Zephyril" filter.
- Australian made throughout.
- Only carefully selected cements used throughout, to suit Australian climatic conditions.

TECHNICAL DETAILS

Rochelle salt crystal microphones are perhaps the most widely used for all types of service where quality speech and music reproduction at high output levels is a requirement. They are dependable in performance and when fitted with the appropriate "Zephyril" filter, their frequency response may be adjusted to suit any application or requirement.

This crystal microphone requires to be terminated with a high value parallel load of the order of 1 to 5 megohms for best results.

The mass of the moving parts is small, hence the sensitivity is high and a high efficiency is achieved.

Light gauge solder lugs are provided so that excessive heat in soldering will not be transmitted to the crystal element.

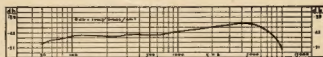
When mounted in a microphone cage, it is recommended that the insert be suspended in rubber, to eliminate shock and vibration.

One of the connecting lugs is directly connected to the case and care should be taken to solder the metal shield of the microphone cable to this solder lug, keeping the unscreened portion of the centre conductor as short as possible to eliminate hum pick-up.

All crystal elements are mounted on high grade suspension pillars, being fixed thereto with a good quality cement, thus ensuring stability and long life.

Case 1½" diameter (rear), ½" thickness, 1-13/16" overall diameter (front) with filter fitted.

Frequency Response = 60-6,500 c.p.s.
Output Level = -45 db (0 db = 1 volt/dyne/cm²)
Impedance = Model 1XA Grid 1 — 5 megohms.



Approximate Frequency Response Curve

AVAILABLE FROM ALL LEADING TRADE HOUSES

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REMEMBRANCE DAY CONTEST, 1956

The Remembrance Day Contest is an Australian annual contest to perpetuate the memory of those Australian Amateurs who gave their lives for their country during World War II. It is held on the week-end nearest to the 15th August in each year, the date on which the hostilities ceased in the S.W.P.A.

A Handsome Perpetual Trophy is awarded annually for competition between States, inscribed with the names of those who made the supreme sacrifice, and so perpetuating their memory throughout Amateur Radio in Australia. The name of the winning State each year is also inscribed on the Trophy.

For the purpose of the R.D. Contest all Amateurs within the Australian Capital Territory (VK1) are to be regarded as operating in VK2 Call Area with regard to Rules, Scoring, Return of Logs. All Awards will also be under the same conditions until such time as Federal Council agrees for it to be otherwise.

Again this year Amateurs in the VK1 Antarctica Call Area can participate in the Contest. Scoring for contacts with VK1 (Antarctica) remain the same, namely, six points per contact per band for all States for contacts with VK1 (Antarctica).

RULES

1. The Contest will commence at 1800 hours E.A.S.T. on 11th August and continue through until 1759 hours on 12th August.

2. The Contest is open to all Australian Amateurs, but only members of the W.I.A. are eligible for the awards.

3. During the Contest, c.w., phone, or a combination of both may be used.

4. The Contest is an Interstate Contest, and Amateurs in each State will endeavour to contact Amateurs in all other States.

5. A station may be operated by more than one operator under the station call sign provided that operators, other than the station licensee, submit a separate log under his own call sign for contest purposes.

To implement this rule, the following procedure shall be adopted by all licensees other than owners of the station concerned.

(a) Licensees operating stations other than their own shall, for the purpose of these rules, be hereinafter referred to as "substitute operators."

(b) Phone Contacts: Substitute operators will call "CQ Remembrance Day," followed by the call sign of the station they are operating, and the word "log" followed by their own call sign.

(c) C.W. Contacts: Substitute operators will call "CQ RD de" followed by a group call sign comprising the call sign of the station they are operating, an oblique stroke, and their own call sign.

(d) Receiving Contestants: Contestants receiving signals from substitute operators will qualify for points by recording the call sign of the substitute operator only (i.e. the last call sign).

(e) Nothing in (a), (b) or (c) above will preclude the station licensee from participating in the contest himself,

providing he submits a separate log under his own call sign.

6. All existing Amateur bands may be used, and all transmissions must conform with the Regulations as laid down in the P.M.G.'s "Handbook for the Guidance of Operators of Amateur Wireless Stations." Any breaches of these will lead to the disqualification of the operator concerned.

7. The arrangements of schedules for contacts on other bands will not be permitted.

8. All stations entering the Contest will call "CQ RD" if using c.w., and "CQ Remembrance Day" if using phone, subject to rules governing substitute operators under rule 5 (a), (b), and (c) above.

9. A State competing for the Trophy must submit a minimum of six (6) logs from financial members before becoming eligible for contesting the Trophy.

10. Only one contact per station per band is permitted.

11. Serial numbers to be exchanged during the Contest will be as follows:—

(a) For C.W. the first three figures will be the RST (telegraphy) report followed by the serial number of the contact commencing with any number between 001 and 100 for the first contact and increasing in value by one (1) for each successive contact. If any contestant reaches 999 he will then commence 001 and continue 002, 003, 004, etc.

(b) For Phone the first two figures will be the RS (telephony) report, followed by the serial number of the contact commencing with any number between 001 and 100 for the first contact and increasing in value by one (1) for each successive contact. If any contestant reaches 999, he will then commence 001 and continue 002, 003, 004, etc.

A complete exchange of serial numbers must take place before any points may be claimed for the contact.

12. In order that an equitable distribution of points for States with a large number of contestants compared with a State with fewer contestants may be determined, a sliding scale of points has been allotted as shown in the scoring table appended.

13. In addition to the points in the scoring table that may be scored by a contestant, a bonus of 25 points may be added to the total score for each State worked on 56 Mc. or above.

14. The log submitted must show in the following order: Date, time, band, emission, call sign, RST/No. sent, RST/No. received, points claimed. No log will be accepted unless laid out in this order.

15. A statement signed by the operator must be attached at the conclusion of the log stating that the Regulations (Rule 6) and these Rules have been observed. Any logs departing from this form will automatically be disqualified.

16. All logs must be forwarded through the Contestant's Divisional Council (for membership checking) to reach the Federal Contest Committee, Box 1234K, G.P.O., Adelaide, on or before 8th September, 1956.

17. Attractive certificates will be awarded to the winners of the phone, c.w., and open sections in each State; there will be no outright winner for Australia. Where a large number of logs are received from any one State, further certificates may be awarded at the discretion of the Contest Committee.

A contestant is deemed to have entered for the "open" section if his log reveals that he has during the Contest period, made valid contacts on both phone and c.w.

18. The State to which the Perpetual Trophy will be awarded shall be determined as follows:—

To the average of the top six (6) logs shall be added a bonus arrived at by multiplying this average by the ratio of valid logs submitted by that State to the total of Amateur Licensees in the Division at the time of the Contest.

Example: Total points equals—

	No. of Logs
Aver. Score	1 plus No. of Licensees in Division

19. The logs which will be accepted for the multiplier under Rule 18 shall show at least five (5) contacts in the Contest.

20. The Trophy shall be forwarded to the winning State in its container and will be held by that State for a period of twelve (12) months when the winners for the succeeding year is determined.

21. The Federal Contest Committee shall be the sole adjudicators and their ruling will be binding in the case of any dispute.

SCORING TABLE

		To								
		VK1	VK2	VK3	VK4	VK5	VK6	VK7	VK8	VK9
From	VK1	6	6	6	6	6	6	6	6	6
	VK2	6	6	1	2	3	5	4	6	6
	VK3	6	1	1	3	2	5	4	6	6
	VK4	6	1	2	1	3	6	5	4	6
	VK5	6	2	1	3	1	5	4	6	6
	VK6	6	1	2	4	3	1	5	6	6
	VK7	6	2	1	4	3	5	1	6	6
	VK8	6	1	2	3	4	5	6	1	6
	VK9	6	1	2	3	4	5	6	1	6

VK1 Amateurs operating from A.C.T. will be classified as VK2.

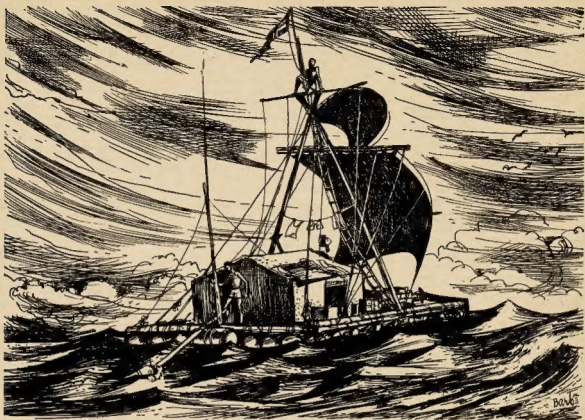
Note.—Read the table from left to right for points for the various States.

Examples:—

VK2 scores 1 point for a VK3 contact.	2	"	"	"	VK4	"
	3	"	"	"	VK5	"
VK6 scores 1	"	"	"	"	VK2	"
	2	"	"	"	VK3	"
	4	"	"	"	VK4	"
	4	"	"	"	VK4	"

ERRATA

In the article, "Building a Panoramic Adaptor," June, 1956 issue, the author has drawn attention to an omission of the values of resistors R21 and R22. They are 470,000 (or 680,000) ohms. Also in Fig. 3, R14 should have been "V" gain, not "H" gain.



101 Days at Sea . . .

THE expedition by six men on board the "Kon-Tiki" must be one of the most exciting adventures ever undertaken by man.

The 4,300-mile journey on the balsa-wood raft took 101 days. Their only contacts with the world were temperamental short-wave transmitting sets and secret sabotage sets used during the war.

From the outset the wireless operators had a tough job. A sufficiently long aerial was a problem. They attached it to a kite but it was promptly blown into the sea. Then they sent it up on a balloon which burst in the strong sun. Salt water trickled into the battery cases and, finally, their pet parrot ate the aerial.

But, in spite of these difficulties, the "Kon-Tiki" managed to keep in touch with several

amateur radio operators, including a Norwegian who lived near Oslo.

This was almost a miracle, considering the short-wave transmitter, with its 13,990 kc. a second, did not send out more than 6 watts — about the strength of a small electric torch.

Improved Techniques. Amateur radio men everywhere have benefited from scientific discoveries which have revolutionised radio techniques.

In SHELL laboratories special resins* have been developed from petroleum and are now extensively used in the manufacture of enamelled wires, insulating materials, and condenser sealers found in radio sets of every type throughout the world.

*Epikote resins



**WIRELESS INSTITUTE OF AUSTRALIA
VICTORIAN DIVISION**

OLYMPIC GAMES ACTIVITIES

OLYMPIC DINNER

A special Olympic Dinner is to be held during the period of the Olympic Games in Melbourne, 22nd November to 8th December, 1956. The date will be announced in the near future.

STATION VISITS

For the special benefit of Overseas Amateurs visits will be arranged to a number of VK3 stations.

FIELD EVENTS

These events will be held in conjunction with Transmitter Hunts on one Sunday during the Olympic period.

Intending Amateur visitors are asked to get in touch with the W.I.A. office at 191 Queen Street, Melbourne, C.1, Vic., after their arrival in Melbourne. More detailed information will be published at a later date.

TAXATION CONSULTANT

Income Tax Returns compiled. Advice given. All types of books written up. Will call on enquirers.

H. HAZLE

396 Bourke St., Melb. MU 8096

AMATEUR CALL SIGNS

FOR MONTH OF APRIL, 1956

NEW CALL SIGNS

- VK—**
New South Wales
 2GV—L. T. McLaughlin, Hunters Valley R.M.D.
 113, Elderton, via Scout.
 2AEA—R. W. Allison (Dr.), 66 Constitution Rd.,
 Dulwich Hill.
 2AJO—J. W. S. Edge, Wallace Street, Coolamon.
 2ASP—R. L. Lear, Station St., St. Marys.
 2ZAP—F. H. Wagner, 18 Lake Rd., Swansea.
 2ZBH—W. A. Thomas, 32 Springdale Rd., Killara.
 2ZDD—R. H. Dell, C/o. Mr. S. Davison, Cun-
 ningham Plains, Cunnings.
 2ZDE—D. E. Woollett, 12 Broadarrow Rd.,
 Beverley Hills.

Victoria

- 3DL—L. F. Amey, 14 Morgan St., Glenhuntly.
 3ET—R. D. R. Tracy, Station: Monash Rd.,
 Olinda; Postal: 34 Docker St., Elwood.
 3KG—K. L. Green, 18 Clayton Rd., Balwyn.
 3AAJ—N. K. J. Felstead, Lanceland Rd., Wood-
 end.
 3AGA—M. N. Russell-Clarke, 187 Manningham
 St., Parkville.
 3AIR—K. B. Ireson, Atkinson St., Templestowe.
 3ARG—R. E. Graemer, 21 Lyonsville Ave., East
 Preston.
 3AZO—J. A. Cunliffe, 21 Highview Rd., East
 Preston.
 3ZBC—J. T. Jarrold, C/o. Mr. L. Schulz, 169
 Holmes Rd., Moonee Ponds.
 3ZBT—K. A. Thomson, 3 Edyevean St., Surrey
 Hills, E.18.
 3ZCC—N. R. Kay, 4 Curraweena Rd., Caulfield.
 E.18.
 3ZCD—D. G. Hawthorne, Flat 3, 11 Leopold
 St., South Yarra.
 3ZCL—M. A. Trill, 84 Argyle Rd., Kew, E.4.

**HAVE YOU RETURNED YOUR
QUESTIONNAIRE YET?**

3ZCU—J. T. Cunningham, 11 Catherine Pde.,
 Frankston.

3ZCZ—M. R. Osborne, 14 Breneal St., Balwyn.

Queensland

- 4LX—M. J. Wratten, Station: 6th Ave., Palm
 Beach, Klamora; Postal: Clem St., Bras-
 sail, Ipswich.
 4OC—E. B. Connor, Cassowary St., Longreach.
 4QZ—C. W. Richardson, Hdq. North Eastern
 Area, R.A.A.F. Station, Camp Magnetic,
 Townsville.
 4SC—S. E. Briggs, 21 McKelligett St., Wandal,
 Rockhampton.
 4ZAJ—L. F. Schmidt, 18 Marriott St., Coorparoo.
 4ZAJ—F. J. Edwards, 1 Market St., Warwick.

South Australia

- 5BT—D. G. Goode, Yankilla.
 5GP—G. D. F. Clarke, Station: "Donnchaidh,"
 4 miles south of Narracoorte; Postal:
 C/o. R. P. Ender, Box 9, Narracoorte.
 5SB—D. S. Brown, Station: 4 Leichardt Cres.,
 Fanny Bay, Darwin; Postal: C/o. Bureau
 of Mineral Resources, Box 449,
 Darwin, N.T.
 5ZAN—M. J. Goodridge, 63 Gray St., Plympton.

Western Australia

- 6RB—E. F. Robins, 148 McDonald St., Joond-
 anna Heights.
 6RH—R. A. Hallamore, C/o. A.N.Z. Bank, 44 St.
 Georges Tnr., Perth.
 6TH—T. H. Talbot, "Wedderburn," Brunswick
 Junction.
 6ZAX—W. G. Redden, 40 Raglan Rd., Mt. Law-
 ley.

Tasmania

- 7BN—W. N. M. Nisbet, "Uneda," off Ormond
 St., Bellerville.
 7ZAF—T. G. Barnes, "Cotteswold," Main Rd.,
 Taroom.

Territories

- 1IJ—D. R. Twigg, Macquarie Island.
 9AA—R. H. Harrison, C/o. R.T.C., Goroka,
 Papua-New Guinea.

**C.W. BANDS: 3500-3550, 7000-7050,
14000-14100, 21000-21100, 28000-28100**

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For many years Eddystone has offered the Amateur an excellent range of low loss, high performance transmitting and receiving variable condensers. Every need of the Experimenter is now catered for in Differential, Neutralising, Butterfly, Split-stator and Tigh Stability Single Section Eddystone Condensers of solid construction employing heavily silver plated brass plates and ceramic end plates.

We will be pleased to show you the full range of Eddystone Condensers and forward a Catalogue on request.

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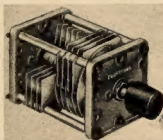
TRANSMITTING AND RECEIVING CONDENSERS

FROM THE HOUSE OF QUALITY PRODUCTS

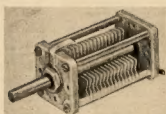
WILLIAM WILLIS & CO. PTY. LTD.

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Phone: MU 2426



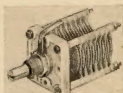
Cat. 835-90 x 50 pF. max. Transmitt-
 ing, 0.688 inch spacing, 2,000 volts.



Cat. 750-100 pF., 0.630 inch spacing,
 double end plates and bearings.



Cat. 815-60 pF. max.
 Transmitting, 0.518 inch
 spacing, 1,000 volts.



Cat. 587-15 x 15 pF. Butterfly
 Type, 0.652 inch spacing.

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Waltham STAR BARGAINS



AT5/AR8 Power Supply, Type "S", 240 volt AC	£25 0 0
Pye Power Supply, Vibrator type, 12 volt input, heavy duty	7 10 0
BC800B Transceiver, VHF, 16 tubes, new	9 10 0
BC800A Receiver, 15 tubes, may be modified to operate on 144 Mc. Amateur band	7 10 0
Tail End Charlie, RT34/APS13, ap- prox. 450 Mc., price with valves	10 0 0
Without valves	5 0 0
Test Oscillator, Type L225, 150-225 Mc.	10 0 0
Wavemeter, Type SC164A, 145-235 Mc.	15 0 0
Signal Generator, Philips, 92.6 Kc. to 23.85 Mc.	25 0 0
Walkie-Talkie Sets, 7.2 to 9.2 Mc., with Mike, Headphones, and 4 foot Aerial Section each	9 10 0
Beacon Receivers, 5 valve aircraft receivers, freq.: 195-420 Kc. each	5 17 6
Amplifiers, VHF, two stages, CV66 grounded grid, approx. 200 Mc.	1 19 6
5BP1 Cathode Ray Tubes, new, in cartons each	1 7 6
511B Cathode Ray Tubes, new, each	3 10 0
3000 type Relays, brand new, 40,000 ohm each	1 15 0
Vernier Dials, micro action, 6 inch diameter each	1 9 6
Headphones, high impedance, 3,000 ohm pair	1 5 0
EF50 Valves, brand new each	3 6
Sockets to suit (sold only with the valves) each	3 6
Knife Switches each	1 5 0

RECEIVER VHF TYPE IC/805B

This set comprises a very high frequency Radio Tele-
phone Receiver with a 240 volt AC Power Supply. It is
a superhet, contains 10 valves, and is crystal locked.
Operates at present between 35 and 45 Mc. In two
separate units: (1) Power Supply, (2) Receiver. Both
mounted together on a metal rack 20 x 39 inches.

PRICE: £30/0/0

The following matching equipment can also be supplied:

1. Transceiver Exciter Unit, 43.2 Mc. crystal controlled	£25 0 0
2. Three Channel Power Amplifier, 43.2 Mc.	5 0 0
3. 25 Watt Modulator Unit (P.A. only), in- cluding Plate Modulator Transformer P.P. 807 to 807	5 0 0

INDICATOR—TYPE 74

Type 74 Indicator Unit, modified to use as Oscilloscope.
3 inch tube. Complete with in-built Power Supply, 240
volt 50 cycles.

PRICE: £19/10/0

T.U. 10 TUNING UNITS

Contain the following equipment:

- 2 Vernier Dials.
- 2 Transmitting Type Condensers.
- Much other useful material including high
voltage mica condensers, radio frequency
chokes, etc.

Contained in a completely screened metal box. This unit
is an excellent buy for the Ham or Radio Experimenter
at the moderate—

PRICE of 50/-

FS6 TRANSCEIVER

These sets have given faultless and reliable service even
operating under the most adverse conditions.

Frequency 4.2 to 6.8 Mc.
6 volt operation.
807's on output.

Complete with Power Supply, Leads, Mike and Head-
phones. Limited number only available.

PRICE: £29/10/0

1196 TRANSCEIVER

A compact and reliable Transceiver designed to give
efficient service under the most rugged conditions. Com-
pletely self-contained and ready for immediate use.

- 12 or 24 volt in-built Power Supply.
- 4 fixed frequency channels (less crystals).
- Frequency coverage: 4.3 to 6.7 Mc.
- Nine Valves.

Brand new, complete with Headphones and Mike—

PRICE: £37/10/0

FIFTY-SIX MEGACYCLES ABOVE

NEW SOUTH WALES

On Sunday night, 6th May, immediately following the usual v.h.f. broadcast for VK6WI a 3 mX scramble took place from 1.45 until 2 p.m. This time the stations taking part were, after reporting in, the operator, Perce 2APQ, announced the scores, the results being: 1st, 2APQ 2A0; 2nd, 2ZBK 2VL; 3rd, 2ABZ 1Z 2AUA 1L; 4th, 2ASA 10; 5th, 2ZIC 2EBV; 6th, 2ABZ 2YV; 7th, 2ZAR 6; 8th, 2ZCB 2ABZ 3; 9th, 2APM 3; 10th, 2EXX 2. The last time 2ZBK has been in the "hot seat" as late as 0.05 and it is believed that he was successful in working Peter 2JX.

Wednesday, May 9, at the home of 2APQ was the first meeting of the newly elected management committee, where responsibilities were placed on members as follows: Chairman, Perce 2APQ, Sec. and Treas., Bob 2OA, Liaison Officer, John 2ZAV, Contest Managers and Field Day Organizers, John 2ATO and Horrie 2HLL. Scribe for "A.R." Notes, Eric 2AFM. Plans have been laid down by this committee to ensure a good number of the various interests of 144 Mc. enthusiasts. Arrangements for a mid-winter contest are to be discussed at the committee's next meeting.

Future VK6WI v.h.f. broadcasts on 144 Mc. are alternating each Sunday night at 1.30 between stations 2ATO and 2ZAV and already these new V.I. operators have received very warm welcomes in Australia. It is interesting that both 2OA and 2APQ have been heard commenting on the pleasure they now get from sitting back listening to the broadcast instead of transmitting them. John 2ATO has been keeping warm these cold nights by sitting alongside his power supply, but says he does not like being so close to the heat. He has been in contact with the fish tank 3 mX during his mobile holiday at Sussex Inlet. A new 2 mX DX station has been heard around Sydney, so keep an ear cocked. 2ZBK of Blayney, on 144.80 Mc. who is keeping nightly sited at 7 p.m. with John 2ANF.

The usual monthly meeting of the V.H.F. Group was held on Friday, 1st June, where, despite the cold weather and rain, a good attendance was made and our newly elected President, 2APQ, occupied the chair. We were honoured by a visit from Doug 2AD8 representing the Hunter Branch, and Phil 3ER. Present also was 2ABA, who is no longer chasing as a visitor. Further prospects for new 2 mX contacts in the Newcastle district are Bob 2KX of Murrumbidgee, Harry 3FL of Cessnock. Also it was reported that 3JZ of Sarrington Tops will soon be looking for Sydney stations. We learn that Norm 2ALJ is on every Monday night looking North and ZL 2ASA is operating 2 mX on Wednesday and Sunday nights. A trip to the Griffith Radio Club was described to members at the meeting by Adrian 3HE who gave a very interesting talk on the activities by that club and explained how very keen the boys are for 2 mX activity. Stewart 2FL has expressed his willingness to become Liaison Officer for that district along with Hugo 2WH of Forbes. From northward we have received similar information that Ken 2ANU will co-operate. Rumour has it that Alan 2JH of Canberra is anxious to form a v.h.f. group and would like to hear from others in the district.

"Switch to Safety" was the title of a lecture given at the meeting by Arthur 2ZL, a collector of good advice to Amateurs concerning the handling of a.c. domestic power in the shack and gave examples of good and bad safety switches and outlets. He was anxious to answer all questions were fired and Arthur was able to answer to each one's satisfaction. He was very suitably thanked for his lecture by 2ZAR which carried the support of all present. —2AFM.

VICTORIA

The final V.H.F. Field Day for this season was also the most successful. For the first time there was plenty of activity on both the 1 and 3 mX bands with a record number of portable stations out on location. In fact all mountain tops and hills were out for weeks prior to the event. There appeared to be more portable stations operating on the band than there were home stations, which is a very gratifying state of affairs. Alan 2JH of Geelong was very busy and successful day although there were a few minor casualties. There were nine stations operating with gear from 2ZAR to 3ALZ on Pretty Bay Hill, a distance of over 80 miles. 3ZCW, portable at St. Arnaud, called in and only made the one DX contact with 3Y5, a home station. 3ZCG, portable at Marley Hill, near Wonthaggi, was heard calling 3BC, but it is understood that distant make a contact. There heard out portable were 3VZ

at Kingslake, 3ZAD at Mt. Donna Buang, 3ADU at the Youyangs, 3IE at Perys Creek, 3KJ at Mt. Macedon, 3ZAV at Ceres Lookout, Geelong. 2ZBK at Mt. Buller, 3CM at Mt. Buninyon, 3SE at Mt. Cole in the Ballarat area, 3AVZ at Reservoir, and Len 3LN the forget which mountain he was on.

Results are as follows: On 144 Mc.: 1st was 3ZCG, 38 contacts for 2118 points; 2nd was 3ZAD, 34 contacts for 1839 points, and 3rd was 3IE, with 28 contacts for 351 points. There was only one DX received for the 300 Mc. band, that was from 3ZAQ with 2 contacts for 108 points.

2RS, of Albany, reports hearing 3BW on 2 mX on May 21 at strengths of 3 to 4. 2RS is still looking for Melbourne stations, his frequency is 144.14 Mc. and he transmits at 8 p.m. and listens at 5 past 8 most evenings. He is anxious to arrange checks with someone on 2 mX and is particularly interested from point of view of contacts on c.w. He suggests that perhaps anyone interested could drop him a line to arrange a check. He operates on 3.7 Mc. for checking purposes. It is interesting that he will be making a trip down this way about the middle of August and will be staying in Melbourne for a few days, so perhaps some of us may have the pleasure of meeting him in person.

There were 39 present at the last V.H.F. meeting to hear Mr. N. S. Feltsecher's lecture on beam aerials. Mr. Feltsecher, who is Divisional Engineer in charge of the Radio Development Division of the P.M.G.'s Radio Research Laboratories, gave a general overview on directional aerials. It was a wonderful lecture, interesting, but I'm afraid we have to admit that more than half of the evening was taken up with the asking and answering of questions. The fellows really made the most of this wonderful opportunity of being able to ask somebody who knew all the answers and also were fortunate in having in Mr. Feltsecher, somebody who was particularly willing to help them with their problems. All who attended voted it a most interesting lecture and went away a lot wiser.

HAVE YOU RETURNED YOUR QUESTIONNAIRE YET?

How are you going with your 100 contacts on the v.h.f. bands? The fourth certificate award has now been applied for by David 3ZAQ, who brought along his 100 confirmations to the meeting.

There has been some good 2 mX DX during the past month. On 5th May, 5BC came through with fair signals and was worked by 3PO in Ballarat and 3BQ on both phone and c.w. On 7th May 5BC came through with signals so strong that anybody could have worked him, in fact it was hard to believe that it could be 5BC. Unfortunately, hardly any stations were listening on the band in Melbourne and only 3BQ and 3CP made contacts with him, on phone of course. These conditions lasted from a little before 8 o'clock till about 8 p.m. when he made contact with him. 3BQ had been receiving very strong signals from 5BC while he was in contact with him. So it was a good band every night at 8 o'clock looking for Melbourne contacts. His frequency is 144.13 Mc.

Charlie 3RH is back on the air again from his new QTH in Dorset. Also Alan 3ARZ is back on 2 mX after an absence of six years. He is running a mod. osc. with a chain of a watt from dry batteries. His signal is particularly stable. Ray 3AN has a new shack nearly completed with a modern console desk which is looking very nice indeed. An 80 foot steel tower is to be a later addition.

The last fox hunt held on 2 mX was a very successful night all round. The weather was dry and mild, a very good crowd turned up and all made several catches. The final location was at the home of Tom 2AOG and VI Zaverin. In Essendon where the gang had their usual post-mortem and supper together. The winner for the evening was Eric 3ADU. Thanks are offered to Tom and VI for opening their home to the gang.

WESTERN AUSTRALIA

A Field Day was held on Sunday, May 13, the first attempted by the V.H.F. Group. Stations were spread out through the south west as far as Albany. While the four hour show was only partly successful, it was a good show which can be put to good use later on. The path to 6BD at Bunbury was open all the time from Perth. Robs worked 6ZAA, 3RE and 3ZAV at Kalbarrie and Perth and 6AW at Bridge-

town. 5HK was worked at Brookton by 6ZAA/ 6BK. 6ZAM and 6ZAF, after moving location three times, worked through to Perth from Perth Dandelup Syd 6BJ just as he beam in a blow while in course of erection.

6ZAA/6BE went to 82J's location at Bencubbin during school holidays. Jack and Bob have shown interest in 2 mX and worked back to Perth during the three-day checks with 6BO 6HK and 6ZAV. We may have a 144 Mc. station at Bencubbin in the near future. Transfers have taken Cox 6ZAD and Ron 6TM to the country. Cecil to Wagin, and Ron to Merriathurs—country DX? Checks with Wally 6WG at Albany are still in progress by 6BO and 6ZAV with varying success.

Cheers, a new station appeared on 2 mX the other day. None other than Frank 6FW. Frank 6FW should be on the band soon.

Another Fox Hunt was held on Saturday night, 2nd June. It was hidden by 6TR/6HC—Don and Warren. 6YK/6WJ were the winners, time 45 minutes. Syd 6SL and Al 6EA came second. Congrats on the effort.

288 Mc. Activity has been low lately. 288 Mc.: Don 6ZAV has a pair of RL18s ready to get going when time permits.—6ZAV

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PROPAGATION REPORT

NEWS AND NOTES

Cross-band contacts 50/56 Mc. between JA and VK have been in the news

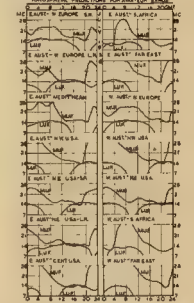
ACTIVITIES

CT, 1^o, K4CC^o, VRIB^o, and PA, HCILE,
HCIES, PYSKY, FGTXB, PZIAL, XZ3OM, ZS-
4JU, CR18AA, 4X4GZ, VJ1AA, VQ8CA, KW8CA,
LUIDBO, VYIAG, VPLJH Doug SKV AC39Q^o
Gordon 88M KV4BK^o, VRIB^o, Rob SKG
VRIB^o Ray 38M JA^o, VSR^o, CT^o George
SKX KL7^o, VRIB^o Austin SWO G^o, SM^o

2000000 is the sum of active LEO satellites.
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 QQSBI VPFRR DLZBW BV1US AJA SA-
 ITJA VQXRR ZD8BV SV0WO TGBAD
 HPI3FL KL7. G AMO KH6 JA 45T
 SWO TGBAD HC1FS SV0WO PJ2AA
 KP4ADX CT1PK ZS3PQ HB9PA 7LE
 KR6QV DUBAW VRBCS ZS3JM End de
 Balise VSEW VS1DQ VSUW JA KW6C
 45TGE PSXA VE ZS6CW
 KJ4JZN HCNCE

De Balfour OH20V, KX62B OMAQ.
Thanks to W6VY and the Northern California DX Club, and VKs 2DI, 3QL IQSP reports 2DI (2ACB), 2ACX, 2AMB, 2APL, 3HG, 3JA, 3TE 3WR, 3XB, 3ATN, 4SE, 5BY, 5HM, 5RG, 5RK. IQSP reports 3HY, 3HM 3HG 3RX 3RX, 5WO, 5JLZ, and a.w.s. W1A-23019, DEARS19, Dave Jenkins (VK3), and Rod de Balfour (VK1) (QSP PLZ)

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SHORT WAVE LISTENERS' SECTION*

Attention VKB, 7 and 9! Do you have s.w.l. in your Division? If you do, why not let us know? Yes, this VKB has come out into the open, and I now know that there are at least two s.w.l. there. Our score now is therefore VKB VKB VKB, and VKB, so speak up and let's make a one hundred per cent. effort. How about all these VKB associates mentioned in the Division letter? I'm sure it would be especially interesting to hear from them. Now for all the news.

First of all the VKB boys. Writing from Coolman, N.S.W., Stan Abay tells me that he has been an s.w.l. for about 3 years. He is using an MN25 Radio Compaa rx with a band switched converter covering 30, 40, 20, 15 and 10 mc. Stan tells me that there is also another s.w.l. in the town and that every Tuesday evening they meet at 2AJO's QTH. Jim Edge 2AJO then gives the boys listening on Amateur Radio. Keep up the good work Jim, it's good to hear of someone helping s.w.l.s. in such a way. We hope to receive some more information from you Stan, so as to keep VKB on the map.

From Len Cragen in VKB we learn that the results of their VK-LZ Contest are not yet available but we hope to have the details by next month. Len also forwards the following description of the gear being used by Mac Hillard: Mac is using an Edgerton 5600, a ten tube rx for 56 Mc., a ten tube home-brew for 21 and 28 Mc., and also a K889 (sig. booster) for use on 14 and 28 Mc. He was using a rx on 28 Mc. but it is out of action at the moment. Unfortunately I have not received any news from VK4 this month so we still have only three Stars represented.

VICTORIAN GROUP MEETING

The May 25th meeting of the VKB Group was in the form of a free night. After the usual business was dispensed with David Rankin 3ZQAQ spoke to the members on v.h.f. for s.w.l. His talk was very interesting and no doubt as a result there should be more s.w.l. on v.h.f. very soon.

* Compiled by Ian J. Hunt, WIA-L3007, 101 Robert Street, Northcote, Vic.

A talk was then given by Ian Hunt on s.w.l. reports. It is hoped that this will result in more useful reports being made by s.w.l.s. in the Group. Ian also demonstrated his rx, an AMR500 and was deluged with questions as to what all the knobs and switches, etc., were for.

We were all pleased to see the smiling face of our Secretary, John Wilson, on deck again. It is understood that he has had a broken leg. Did you drop a power tranny on it John? Michael Ide, WIA-L3013, has now shifted his QTH to Thornbury. Life is now using a ground plane antenna instead of a 20 mc. half wave. His rx's are an AR7 (modified), and an AR301 on 144 Mc. Bert Shebling, WIA-L2008, has graduated to low power motor cars. The big bus is at present out of commission, but Bert says he'll get it going again or bust. We haven't seen him doing any portable or mobile s.w.l'ing yet. David 3ZQAQ (WIA-L3003) is understood to be flat out studying for exams. Another person we haven't seen for some time is Arthur JAHND, who is now the very proud owner of a vehicle, or is it a motor car Arthur? He says he will definitely be going mobile, so look out everyone.

Whilst I am mentioning mobile operation I will tell you of a sure-fire method of obtaining a QSL card. This method is as follows: You receive SAFT, who is at present mobile in the Sydney area of N.S.W., send him a report, and he'll reply with a QSL. Bill would be very interested in your report. He is on the air most evenings from 5 p.m. till 8.30 p.m. week nights and any time at all during week-ends. The frequencies of operation are 7000 and 1100.7 Kc. The power used varies between 5 and 7 watts. So go to it and see if you can receive this station.

COMING EVENTS

At the July meeting of the VKB Group, Geoff 3DF will talk to us about his recent overseas tour. This should be most interesting so do not miss it. Geoff will be in the group room at the room, 191 Queen Street at 8 p.m. on the last Tuesday of each month. Further details of our future programme are given on page 17 of "A.R." for May, 1956.

A visit to the "Argus" newspaper office has been arranged. This visit will be held on Tuesday the 17th of July at 8 p.m. Members are requested to meet outside the "Argus" office on the corner of Elizabeth and Latrobe Streets, Ctg., no later than 8.45 p.m. You are all welcome to attend, even any interested Amateur may come along.

A CQ TO ALL AMATEURS

If you could come along to one of our meetings and give a short talk on some aspect of Amateur Radio, or if a small group of s.w.l.s. could visit your station, please let us know. Write to Ian Hunt or ring him at MY280 Ext. 536 during the day. If you are on a 2 mc. call 3ZQAQ and talk to him about it. Also, if you think we could help you by monitoring a transmission, looking for your mobile signal or assisting in the erection of an antenna or anything else you can think of, don't fail to let us know.

HEARD ON THE ETHER

Diligent listening has allowed s.w.l.s. to log the following—

3 S Me Geoff Morris WIA-L3017—ZLs, Wa 7 Me WIA-L3017—Wae K1H3, VRZ, ZLs ZM6, JA, Michael Ide, WIA-L3013—K1J7, VK1J3

14 Me WIA-L3017 W. ZLs XE3 HC2, G. DLB, ZM6, ZK1, VRI1, VE, F7-9, ON4, TGR VR1, CT1, 2 and 3 EA3, OZ3, FUR, FOS, K3B G1S, H8B, GW3-4, CNB, JAI, 3 and 4, 895, 11, HR3 KH6 K1L, KM6 K1T, KW6 KX6, VK1, VPI, VJ1 GMB KA, KGB KC6 VV6, COS, KRB YB1 T12 KC4UBA, KCAUBH + s.b.) WIA-L3013—BV1, CT1, 2 and 3, DL4, EA3, F8 and 9 FUB, G2, 3 and 8 GW3, H19, HX1, JA/KA KOUKA KGB, K1H3, KM6 K1H3, K1J7 KXG OZ3, PA6, P77 TGR VK1J3 VR3, VER, 5, 7, VR2, VP2, 5, VR2, XE3 VV3, T12, ZK1, ZM6 W Len Cragen, WIA-L3004—CNB CT1 and 3, EA3, G, G1, HCL, 11, JA, KC4UBA, KGB, K1H3 K1T, LU, OQ5, VE, VK1J3, VK3 VRI and 2 W XE2 ZK1 ZL A. Halliday WIA-L3006—CNB EXT PA3 KH6 VE VK1J3, VRI, F2 W Mac Hillard WIA-L3016—CT1, F3, G2 11 PA6 D Perret, WIA-L3017 CO3, CT1, G13 KPB, H, JA/KA, VK1J3, ZSS, W C Herd, WIA-L3018—CNB, CT1, EA3 11 T12, VE7, V83

Well you can see that the bands are quite active so see just what you can hear between now and next month. Keep those logs rolling in.

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AMENDED RESULTS

NATIONAL FIELD DAY

VK2ARZ, who was placed second in the c.w. section instead of third, pointed out the errors in the results published. The Federal Contest Committee here-with issue the necessary amendments. Apologies are offered to all concerned.

State Winners—C.W. Section

New South Wales: VK2AWI (operators D. J. Pollard, VK2ASW; S. Bourke, VK2EL), score 46 points.

Open Section

No entries from VK4, 5, 6 or 9.

Logs Received—C.W. Section

VK7LJ 80 points, VK2WI 48, VK2ARZ 25, VK3ADW 25.

PARTICIPANTS' COMMENTS

The following letter was received by the Federal Contest Committee who suggest publication of same. If you have any ideas re this contest please let the Committee know.

We thoroughly enjoyed the National Field Day Contest although we did not have many contacts (being on c.w. only). We would like to make the following comments and suggestions for future contests:

(1) We think it should run 24 hours (6 p.m. Saturday to 6 p.m. Sunday) as one goes to a good deal of trouble for the contest and the times make it a bit of a rush. It would mean camping, but I think this would add to the fun. There would be greater opportunity for DX

contacts. Camping with radio can be a lot of fun!

(2) The scoring should permit working the same station on different Amateur bands (as in R.D. Contest).*

(3) The participation of overseas stations needs clarifying. Apparently they don't have to submit logs. Do they then have to exchange sequence numbers? We think that if the operations on the bands are monitored by officials in each State, nominated by the Contest Committee, to check and report irregular operation, the participants should be allowed to make overseas contacts without logs being forwarded and without the exchange of sequence numbers. In other words, the operator is put on his honour to include only bona fide contacts. This would render the overseas contact simpler and without the need for explanation of the contest requirements. If overseas stations are to exchange sequence numbers then much greater publicity is required. What a pity a world-wide Field Day Contest can't be arranged! We did not chase DX contacts (although we were often called by Ws) and those we did work we did not worry with sequence numbers.

(4) We think the contest rules should indicate the correct procedure in regard to call signs. We used VK7LJ/7, but many used the /P to indicate portable operation. The correct procedure was given in the Federal Notes in "A.R." a couple of years ago and if I remember rightly, specifies the /7, etc. I have meant to check this but haven't had

* Rule 6 covers this.

time. As a matter of fact it was my suggestion originally to the Advisory Committee as the /7 type is commonly used in U.S.A. at least.

(5) The contest needs greater publicity. The value of such a contest in proving the efficiency of both operators and gear for emergency purposes needs stressing. With a couple of Amateurs working in shifts at cooking and radio there can be a great deal of enjoyment. It is a good try-out of the efficiency of both personnel and equipment, particularly so if run for 24 hours. The battery situation is more difficult but not insurmountable. Real skill in choosing the right band for the right time is needed. I very much like the multiple operators idea allowed in the contest. It then does not come too hard on any one individual.

—Lon R. Jensen, VK7LJ.



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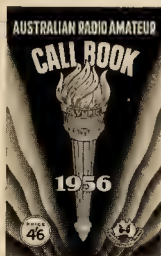
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M224

HUNTER BRANCH

Harold 2A1A, one of the Vice-Presidents of the Branch, took charge of the May meeting, owing to the illness of President, RH 2XT. Mr. Wolfe, the railway department manager, gave a lecture entitled "Electronics in the Railway Service" and had equipment on show, which he used to demonstrate some sections of his lecture. Members present were: President, Max 2OT, Ted 2AHW, Varley 2SF, Les 2AOR, Harry 2AFA, George 2AGD, Doug 2ADS, Charles 2AJO, Alan 2AJS, Ken 2AAM, and Messrs. Clates, Bob Bailey, Stan Lloyd, Gordon Stainer, Ian James, Bill Nichols, and from Sydney, Les Gilbertson.

With two limited license holders already in the district, namely Rodney 2ZBR and Athol 2ZAR, and other associates studying hard, an increase of activity on 144 Mc is anticipated. As a means of assisting the newcomers, the "Z" licences, and also to interest other branch members in 144 Mc, Doug 2ADS has been appointed liaison officer between Hunter Branch and the V.H.F. Group in Sydney. The scheme is to collect data and circuits on the latest v.h.f. l.c's and r.c's and supply this to interested members.

A familiar voice has been heard on the bands again using the call sign 3SD. This is none other than our old friend, Bob formerly 2AFS. Bob is now in the States and has received a change from the 70 ft. high vee beams he used in VKZ "Three Bill" 2AEY should by now be operating mobile as he travels around his district. Bob has removed the barbed wire from the 144 Mc line—signals getting through now. Jack 2CX is heard quite often on 48 mc. He is doing well. Ken 2AAM and 2AAMM has left Stockton, "the home of DX," and is now residing at Maitland. A two-section 40 Mc antenna is occupying Jim 2AHT while John 2AJS has been named extra operator. Ron 2ASJ is practising to increase his speed with the foot operated c.w. Norm Stanley has received a new 144 Mc antenna and is now "licker" and Jack Hamilton is ready to try for the "limited" exam.

The official station of the Hunter Branch, 2AWX, can be heard every Monday night at 8 p.m. and is due to be the station for the latest news in the Hunter Branch.

The next meeting of the Branch will be held on 13th July at 8 p.m. at the University of Technology, Rydalmere. The speaker will be announced over 2WI and 2AWX.—2AOR.

UPPER HUNTER AREA

The first news of importance is that Tas 3GV has been operating from Ellerston with a No. 11 set, putting an f.b. signal in here; believe that you are interested in 144 Mc. No word from Ron 2BC, must have started to work. Al Pike 2GS, No a.c. out that way Roy. Have not seen him nor half of Norm 2OS, the icy blast of Barrington must be keeping you underground. Know that the boys would like to hear you on sometimes, perhaps you are constructing a tv rx? Who knows.

Geoff 3VU had a field day of his own altering gear and re-painting his truck whilst the XYL and junior ops were away for the school holidays. Geoff pity that 2E28 wouldn't perk. Your write 2AIV, besides slowing around in the m.c. and doing the boys would like to hear you on sometimes, perhaps you are constructing a tv rx? Who knows.

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SOUTH WESTERN ZONE

It must be the cold damp weather we are having that is the reason for the change, not being very active lately. The fire is the best place. The Griffith Radio Club has started a new class, 10 victims, 1 hear, good work chaps. Hope you all get your tickets. Four certificates, the two Coleman assoc members, Stan Abbey and Jack Ashley, hard at work every Tuesday night and handing out lots of homework for the boys. Know that the boys would like to hear you on sometimes, perhaps you are constructing a tv rx? Who knows.

Adrian 2ZB from Sydney, is making a flying visit to Griffith this week-end (16th May), to show the Griffith gang how 144 signs are made.

He has shades arranged at different points of the compass. Next month's notes should come from Griffith. I hope. 2AJO.

SOUTH WESTERN ZONE

It is my duty to record the passing of Max 2IL of Dubbo, Max, together with his son Stephen, 77, daughter Maxine (14) and Margaret (15), who was killed in an accident on the Macquarie River, at Dubbo. The sole survivor of the tragedy was Maxine, who was aged 15 at the time. Max was a well known every band from 80 to 6 mhz and was well known by overseas Amateurs as well as those in this country. It would be impossible to describe the upset in Dubbo, where Max was a highly respected citizen and businessman. The idea of the loss felt by the community can be gained from the hundreds of people who had joined in the search which followed the tragedy. Local Amateurs RH 2ACT, Tom 2AMR and Chris 2AJP, were associated in a river search, which covered 330 miles in two days. The communications being maintained in the 7 Mc band. Amateurs all over the world will join in the heartfelt sympathy to Mrs. Moore and Maxine.

During the last few years many of the active operators in this zone have migrated to the city. 2A2V, 2A2W, 2A2X, 2A2Y, 2A2Z, 2A3A, 2A3B, 2A3C, 2A3D, 2A3E, 2A3F, 2A3G, 2A3H, 2A3I, 2A3J, 2A3K, 2A3L, 2A3M, 2A3N, 2A3O, 2A3P, 2A3Q, 2A3R, 2A3S, 2A3T, 2A3U, 2A3V, 2A3W, 2A3X, 2A3Y, 2A3Z, 2A4A, 2A4B, 2A4C, 2A4D, 2A4E, 2A4F, 2A4G, 2A4H, 2A4I, 2A4J, 2A4K, 2A4L, 2A4M, 2A4N, 2A4O, 2A4P, 2A4Q, 2A4R, 2A4S, 2A4T, 2A4U, 2A4V, 2A4W, 2A4X, 2A4Y, 2A4Z, 2A5A, 2A5B, 2A5C, 2A5D, 2A5E, 2A5F, 2A5G, 2A5H, 2A5I, 2A5J, 2A5K, 2A5L, 2A5M, 2A5N, 2A5O, 2A5P, 2A5Q, 2A5R, 2A5S, 2A5T, 2A5U, 2A5V, 2A5W, 2A5X, 2A5Y, 2A5Z, 2A6A, 2A6B, 2A6C, 2A6D, 2A6E, 2A6F, 2A6G, 2A6H, 2A6I, 2A6J, 2A6K, 2A6L, 2A6M, 2A6N, 2A6O, 2A6P, 2A6Q, 2A6R, 2A6S, 2A6T, 2A6U, 2A6V, 2A6W, 2A6X, 2A6Y, 2A6Z, 2A7A, 2A7B, 2A7C, 2A7D, 2A7E, 2A7F, 2A7G, 2A7H, 2A7I, 2A7J, 2A7K, 2A7L, 2A7M, 2A7N, 2A7O, 2A7P, 2A7Q, 2A7R, 2A7S, 2A7T, 2A7U, 2A7V, 2A7W, 2A7X, 2A7Y, 2A7Z, 2A8A, 2A8B, 2A8C, 2A8D, 2A8E, 2A8F, 2A8G, 2A8H, 2A8I, 2A8J, 2A8K, 2A8L, 2A8M, 2A8N, 2A8O, 2A8P, 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2A0O, 2A0P, 2A0Q, 2A0R, 2A0S, 2A0T, 2A0U, 2A0V, 2A0W, 2A0X, 2A0Y, 2A0Z, 2A1A, 2A1B, 2A1C, 2A1D, 2A1E, 2A1F, 2A1G, 2A1H, 2A1I, 2A1J, 2A1K, 2A1L, 2A1M, 2A1N, 2A1O, 2A1P, 2A1Q, 2A1R, 2A1S, 2A1T, 2A1U, 2A1V, 2A1W, 2A1X, 2A1Y, 2A1Z, 2A2A, 2A2B, 2A2C, 2A2D, 2A2E, 2A2F, 2A2G, 2A2H, 2A2I, 2A2J, 2A2K, 2A2L, 2A2M, 2A2N, 2A2O, 2A2P, 2A2Q, 2A2R, 2A2S, 2A2T, 2A2U, 2A2V, 2A2W, 2A2X, 2A2Y, 2A2Z, 2A3A, 2A3B, 2A3C, 2A3D, 2A3E, 2A3F, 2A3G, 2A3H, 2A3I, 2A3J, 2A3K, 2A3L, 2A3M, 2A3N, 2A3O, 2A3P, 2A3Q, 2A3R, 2A3S, 2A3T, 2A3U, 2A3V, 2A3W, 2A3X, 2A3Y, 2A3Z, 2A4A, 2A4B, 2A4C, 2A4D, 2A4E, 2A4F, 2A4G, 2A4H, 2A4I, 2A4J, 2A4K, 2A4L, 2A4M, 2A4N, 2A4O, 2A4P, 2A4Q, 2A4R, 2A4S, 2A4T, 2A4U, 2A4V, 2A4W, 2A4X, 2A4Y, 2A4Z, 2A5A, 2A5B, 2A5C, 2A5D, 2A5E, 2A5F, 2A5G, 2A5H, 2A5I, 2A5J, 2A5K, 2A5L, 2A5M, 2A5N, 2A5O, 2A5P, 2A5Q, 2A5R, 2A5S, 2A5T, 2A5U, 2A5V, 2A5W, 2A5X, 2A5Y, 2A5Z, 2A6A, 2A6B, 2A6C, 2A6D, 2A6E, 2A6F, 2A6G, 2A6H, 2A6I, 2A6J, 2A6K, 2A6L, 2A6M, 2A6N, 2A6O, 2A6P, 2A6Q, 2A6R, 2A6S, 2A6T, 2A6U, 2A6V, 2A6W, 2A6X, 2A6Y, 2A6Z, 2A7A, 2A7B, 2A7C, 2A7D, 2A7E, 2A7F, 2A7G, 2A7H, 2A7I, 2A7J, 2A7K, 2A7L, 2A7M, 2A7N, 2A7O, 2A7P, 2A7Q, 2A7R, 2A7S, 2A7T, 2A7U, 2A7V, 2A7W, 2A7X, 2A7Y, 2A7Z, 2A8A, 2A8B, 2A8C, 2A8D, 2A8E, 2A8F, 2A8G, 2A8H, 2A8I, 2A8J, 2A8K, 2A8L, 2A8M, 2A8N, 2A8O, 2A8P, 2A8Q, 2A8R, 2A8S, 2A8T, 2A8U, 2A8V, 2A8W, 2A8X, 2A8Y, 2A8Z, 2A9A, 2A9B, 2A9C, 2A9D, 2A9E, 2A9F, 2A9G, 2A9H, 2A9I, 2A9J, 2A9K, 2A9L, 2A9M, 2A9N, 2A9O, 2A9P, 2A9Q, 2A9R, 2A9S, 2A9T, 2A9U, 2A9V, 2A9W, 2A9X, 2A9Y, 2A9Z, 2A0A, 2A0B, 2A0C, 2A0D, 2A0E, 2A0F, 2A0G, 2A0H, 2A0I, 2A0J, 2A0K, 2A0L, 2A0M, 2A0N, 2A0O, 2A0P, 2A0Q, 2A0R, 2A0S, 2A0T, 2A0U, 2A0V, 2A0W, 2A0X, 2A0Y, 2A0Z, 2A1A, 2A1B, 2A1C, 2A1D, 2A1E, 2A1F, 2A1G, 2A1H, 2A1I, 2A1J, 2A1K, 2A1L, 2A1M, 2A1N, 2A1O, 2A1P, 2A1Q, 2A1R, 2A1S, 2A1T, 2A1U, 2A1V, 2A1W, 2A1X, 2A1Y, 2A1Z, 2A2A, 2A2B, 2A2C, 2A2D, 2A2E, 2A2F, 2A2G, 2A2H, 2A2I, 2A2J, 2A2K, 2A2L, 2A2M, 2A2N, 2A2O, 2A2P, 2A2Q, 2A2R, 2A2S, 2A2T, 2A2U, 2A2V, 2A2W, 2A2X, 2A2Y, 2A2Z, 2A3A, 2A3B, 2A3C, 2A3D, 2A3E, 2A3F, 2A3G, 2A3H, 2A3I, 2A3J, 2A3K, 2A3L, 2A3M, 2A3N, 2A3O, 2A3P, 2A3Q, 2A3R, 2A3S, 2A3T, 2A3U, 2A3V, 2A3W, 2A3X, 2A3Y, 2A3Z, 2A4A, 2A4B, 2A4C, 2A4D, 2A4E, 2A4F, 2A4G, 2A4H, 2A4I, 2A4J, 2A4K, 2A4L, 2A4M, 2A4N, 2A4O, 2A4P, 2A4Q, 2A4R, 2A4S, 2A4T, 2A4U, 2A4V, 2A4W, 2A4X, 2A4Y, 2A4Z, 2A5A, 2A5B, 2A5C, 2A5D, 2A5E, 2A5F, 2A5G, 2A5H, 2A5I, 2A5J, 2A5K, 2A5L, 2A5M, 2A5N, 2A5O, 2A5P, 2A5Q, 2A5R, 2A5S, 2A5T, 2A5U, 2A5V, 2A5W, 2A5X, 2A5Y, 2A5Z, 2A6A, 2A6B, 2A6C, 2A6D, 2A6E, 2A6F, 2A6G, 2A6H, 2A6I, 2A6J, 2A6K, 2A6L, 2A6M, 2A6N, 2A6O, 2A6P, 2A6Q, 2A6R, 2A6S, 2A6T, 2A6U, 2A6V, 2A6W, 2A6X, 2A6Y, 2A6Z, 2A7A, 2A7B, 2A7C, 2A7D, 2A7E, 2A7F, 2A7G, 2A7H, 2A7I, 2A7J, 2A7K, 2A7L, 2A7M, 2A7N, 2A7O, 2A7P, 2A7Q, 2A7R, 2A7S, 2A7T, 2A7U, 2A7V, 2A7W, 2A7X, 2A7Y, 2A7Z, 2A8A, 2A8B, 2A8C, 2A8D, 2A8E, 2A8F, 2A8G, 2A8H, 2A8I, 2A8J, 2A8K, 2A8L, 2A8M, 2A8N, 2A8O, 2A8P, 2A8Q, 2A8R, 2A8S, 2A8T, 2A8U, 2A8V, 2A8W, 2A8X, 2A8Y, 2A8Z, 2A9A, 2A9B, 2A9C, 2A9D, 2A9E, 2A9F, 2A9G, 2A9H, 2A9I, 2A9J, 2A9K, 2A9L, 2A9M, 2A9N, 2A9O, 2A9P, 2A9Q, 2A9R, 2A9S, 2A9T, 2A9U, 2A9V, 2A9W, 2A9X, 2A9Y, 2A9Z, 2A0A, 2A0B, 2A0C, 2A0D, 2A0E, 2A0F, 2A0G, 2A0H, 2A0I, 2A0J, 2A0K, 2A0L, 2A0M, 2A0N, 2A0O, 2A0P, 2A0Q, 2A0R, 2A0S, 2A0T, 2A0U, 2A0V, 2A0W, 2A0X, 2A0Y, 2A0Z, 2A1A, 2A1B, 2A1C, 2A1D, 2A1E, 2A1F, 2A1G, 2A1H, 2A1I, 2A1J, 2A1K, 2A1L, 2A1M, 2A1N, 2A1O, 2A1P, 2A1Q, 2A1R, 2A1S, 2A1T, 2A1U, 2A1V, 2A1W, 2A1X, 2A1Y, 2A1Z, 2A2A, 2A2B, 2A2C, 2A2D, 2A2E, 2A2F, 2A2G, 2A2H, 2A2I, 2A2J, 2A2K, 2A2L, 2A2M, 2A2N, 2A2O, 2A2P, 2A2Q, 2A2R, 2A2S, 2A2T, 2A2U, 2A2V, 2A2W, 2A2X, 2A2Y, 2A2Z, 2A3A, 2A3B, 2A3C, 2A3D, 2A3E, 2A3F, 2A3G, 2A3H, 2A3I, 2A3J, 2A3K, 2A3L, 2A3M, 2A3N, 2A3O, 2A3P, 2A3Q, 2A3R, 2A3S, 2A3T, 2A3U, 2A3V, 2A3W, 2A3X, 2A3Y, 2A3Z, 2A4A, 2A4B, 2A4C, 2A4D, 2A4E, 2A4F, 2A4G, 2A4H, 2A4I, 2A4J, 2A4K, 2A4L, 2A4M, 2A4N, 2A4O, 2A4P, 2A4Q, 2A4R, 2A4S, 2A4T, 2A4U, 2A4V, 2A4W, 2A4X, 2A4Y, 2A4Z, 2A5A, 2A5B, 2A5C, 2A5D, 2A5E, 2A5F, 2A5G, 2A5H, 2A5I, 2A5J, 2A5K, 2A5L, 2A5M, 2A5N, 2A5O, 2A5P, 2A5Q, 2A5R, 2A5S, 2A5T, 2A5U, 2A5V, 2A5W, 2A5X, 2A5Y, 2A5Z, 2A6A, 2A6B, 2A6C, 2A6D, 2A6E, 2A6F, 2A6G, 2A6H, 2A6I, 2A6J, 2A6K, 2A6L, 2A6M, 2A6N, 2A6O, 2A6P, 2A6Q, 2A6R, 2A6S, 2A6T, 2A6U, 2A6V, 2A6W, 2A6X, 2A6Y, 2A6Z, 2A7A, 2A7B, 2A7C, 2A7D, 2A7E, 2A7F, 2A7G, 2A7H, 2A7I, 2A7J, 2A7K, 2A7L, 2A7M, 2A7N, 2A7O, 2A7P, 2A7Q, 2A7R, 2A7S, 2A7T, 2A7U, 2A7V, 2A7W, 2A7X, 2A7Y, 2A7Z, 2A8A, 2A8B, 2A8C, 2A8D, 2A8E, 2A8F, 2A8G, 2A8H, 2A8I, 2A8J, 2A8K, 2A8L, 2A8M, 2A8N, 2A8O, 2A8P, 2A8Q, 2A8R, 2A8S, 2A8T, 2A8U, 2A8V, 2A8W, 2A8X, 2A8Y, 2A8Z, 2A9A, 2A9B, 2A9C, 2A9D, 2A9E, 2A9F, 2A9G, 2A9H, 2A9I, 2A9J, 2A9K, 2A9L, 2A9M, 2A9N, 2A9O, 2A9P, 2A9Q, 2A9



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For VALVES:
807, KT96,
etc.
Satisfactory Conversion
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See "Audio Engineering" of
June, 1952.

70 WATTS: 30-30,000 e.p.s.
Primary: 6,000 ohms.
SCREEN TAPS: 10% of Plate Z.
V.R.: Plus or minus 1 db 10-30,000
e.p.s.
Leakage Inductance:
1/2P/1/2P: 18 mH. maximum
Prim/Sec: 20 mH. maximum

★ TYPE 931 (931-8: 2 or 8 ohms; 931-15: 3.7 or 15 ohms):

For VALVES:
61A, EL37,
KT96, etc.
See "Radio and Hobbies" of
February, 1955, 17 watts
U.L. Amplifier.

70 WATTS: 30-30,000 e.p.s.
Primary: 4,500 ohms.
SCREEN TAPS: 10% of Plate Z.
V.R.: Plus or minus 1 db 10-30,000
e.p.s.
Leakage Inductance:
1/2P/1/2P: 15 mH. Maximum.
Prim/Sec: 15 mH. maximum

★ Ultra Linear Output Type—

Type 918-12 watts.
Sec.: 5,500 ohms p.p. (with
screen taps).
Sec.: 918-8, 2 or 8 ohms;
918-15: 2.7 or 15 ohms.
Type 940-12 watts.
Prim.: 8,000 ohms p.p.
Sec.: 2, 8, 12.5 15 ohms.
Response: 10-30,000 e.p.s.
Valves: 8V6, 6DW6, KT61,
EL84 etc.
10% Screen Taps

★ For Mullard "5-10" Amplifier

Type 2305-12 watts.
Prim.: 5,000 ohms o.t.
Sec.: As before.
Response: 10-30,000 e.p.s.
Type 2305-8
For 2 or 8 ohms Secondary.
Type 2305-15
For 3.7 or 15 ohms Secondary.

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HAVE YOU RETURNED YOUR QUESTIONNAIRE YET?

3ARY, Ray 3KD, Ray Price, Bob 3OJ and Herb 3AO journeyed up from Melbourne for this event on 10th and 11th July. They got away at 10.30. This started at 3 p.m. The outright winners were Bob 3OJ and Herb 3JO, the Stevens brothers who were 1st and 2nd respectively of the V.B.J. Group. Congrats to boys, we benefited by the run and hope to have a go at you once again.

We would like to thank the Melbourne chaps who came up, also the organisers who were David 3DY, Bert 3BB, Ian 3AAV and Bernie 3Rely. Thanks a lot lads for a wonderful job. It was a most enjoyable week-end and we are looking forward to the State Convention when we hope to see you all again.—3AJK.

CENTRAL WESTERN ZONE

During the past few months some members of this zone have been actively engaged building new, high power rigs. Herb 3AFO now has a rack and panel job which covers the 30 and the lower frequencies, running 100w, to a pair of 80ts. He is using a Type 5 power supply recently obtained through disposals. Trev 3ATR is now using a band-switched rig built into a cabinet and using an 813 in the final. Alan 3AJX has stuck to the popular 807 combination station, but has a 100w rig and has all his gear running off the a.c. generating plant which he has recently installed. Chas 3AL is building a new rig, a 6-11, and is 6149s which he has put in place. The 813 he still has to build the modulator portion of the screen modulating system.

Keith 3AKJ is still busy constructing and hopes to be on the air in the near future. Bill 3AKW is at present finding bits and pieces for a new mobile rig to operate on the 40 mx band. Rig will be a 6-11, and will be a 6-11, and another 12AB will be modulator. Power supply will consist of vibrator and 6X3 as rectifier. Congrats to us all to Keith 3ATZ and his XYL Olive on the arrival of their first harmonic. Perhaps the shack door will be closed again for a while Keith, but hope it will not be for long.—3AKW.

SOUTH WESTERN ZONE

The zone is fairly active, particularly on 144 Mc. The rig sold by John 3AGV is doing well. Also has a cubicle quad mounted approx. 95 ft. from the ground and is working out quite well. Fern 3SQ is getting steamed up to remote control and will be joining the zone. John 3AGC too cold out in the shack. Neil 3HG, of Coleraine, is now on a.c. so will most likely be on the bands. John 3AGL is now getting all rigging off the gear set up in the new home. Geoff Clarke (3DF) has been at 3AGD's for a few week-ends, but seems to be hard to get to the mobile. Don 3AGF hopes Geoff S.W.J. Monday has been discharged from the National Service as the old health seems to be better. John 3AGH was with Geoff 3AGF, and hopes to have a visit from one of our zone members. Bert 3BI (ex-3BI, of Ballarat), Bill Wines and XYL have been on holidays in Geelong, Melbourne and Ballarat.

Ian 3BU has made a new rig which is putting a better signal out now. 3AGV, of Colac, has returned from Warragul. He visited Jack 3AGC, one of our old zone members. Ian 3AGC has been on holidays in the Wimmera and was nearly caught in the floods, that's no good. Mark 3AKU is now working on a composite rx as Qser. Chris 3AXU has installed a heater in the shack. Chris had a visit from Ken TLK, who, using an 8w. mobile rig, worked 100ft from outside the front of 3AGV. Don 3PO, of Ballarat, seems to be the only one up there on the bands, particularly 2 mx. Well chaps, you all get your photos at the Convention held at Warrnambool, if not please drop me a few lines or contact Harry 3XI.—73 Bill Wines.

NORTH EASTERN ZONE

Frank 3ZU is now back after an interesting holiday in VKZ. Kevin 3ZM has left Yarrawonga and is now in Mornington. Geoff 3AGG is back on the air again after a power failure. Brian 3AMZ still tied up with his studies. Howard 3ZV has his rig going now. Keith 3ZB and Jim 3ZK is doing well with that beam on 10, 15, and 20 mx. Jack 3ACK and Bill 3AWQ busy with work. Ron 3ZL is back on the "old rig" now. Bill 3ZF and Don 3ZF. Ken 3KR were heard checking their rigs on 40 mx recently. It is thought that Hugh 3AMF is back from his holidays. Don 3ZB has been on a trip to Goodwind. Syd 3CI recently got an interesting selection of colour photographs as a

QSL from a W4. Keith 3JC worked Doug HJ down on Macquarie Is. George 3OD is thought to be on to the DX. Johnny 3ACK is moderately active, and Peter 3AV, who is a 100w, the v.h.f. bands. Ray 3PT still building that new shack. Brian 3AES and Bruce 3AGG are chasing 20 mx DX. Jim 3ALE is active. Vern 3AAV has recently shifted his shack from the back verandah to the garage, but our former member Col 3WQ is still not in his own house.

Victor 3GD, John 3AV, and Keith 3ZB are gear with him on his holiday. Wangaratta. Of our Associates, Ernie 3Somes is back after the course mentioned last month; Jim Harrington has not been heard of lately; and Jack Dunne is experimenting with model aircraft. Allan Holmes is constructing one of those tri-beams, and our enthusiast friend John Brough-Smith was at Murchison East early in May. The North Eastern Zone Annual Convention will be held in the Antae Rest Room in Stratford Street, Seymour, this Sunday, 18th July next. The catering is "bring your own tucker, tea, milk, and sugar; hot water will be provided."—3FD.

GEELONG AMATEUR RADIO CLUB

The v.h.f. field day recently was of keen interest to 2 mx enthusiasts in this district. Many stations took part, including 3ZAV and 3AAW. Peter 3ZAV was stationed on Cerberus Lookout and logged about 15 stations. Some of the many stations heard at good strength were 3ZBR, 3TE, 3ZAD and 3ADU. Bill 3AV visited Eric 3ADU who was portable on the You Yangs and saw some fine DX worked at this excellent station. A 1 mx contact between 3ADU and 3ZAV was the only signal heard here on this band.

Bill 3WT and Bill 3BU are not back on deck yet after HMAS. Our Secretary, Bob 3BU, has returned from a motor cycling holiday to Adelaide via Mildura. Bob was equipped with his portable gear and contacted and visited many old friends.

A recent disposals evening raised members from hibernation and a satisfactory time was spent. The evening was well attended and, understandably, it is hoped to have the features of the S.W. Zone Convention completed and posted to members soon. Don't forget chaps, club members here will be listening and transmitting on the hour on Sunday afternoons from 3 p.m. onwards and would be anxious to exchange news and views.—3AWZ.

QUEENSLAND

BRISBANE AND DISTRICT

The past month has seen quite a bit of activity in the Brisbane area. The Palm Beach Convention was a success and full details will be published in the next issue of the magazine. The official station, 3W4WV, is now well settled in its new home at Wavell Heights and should be quite active by the time you read this. Bert 3AO has put a terrific amount of work into the GO9s and is on the last piece of work now. He has modified the 1's for "press-to-talk" and will be able to operate simultaneously on two bands. One suggestion by a country member was that the normal 20 mx and 40 mx broadcasts be made on Sunday mornings as

Wireless Institute of Australia

Victorian Division

A.C.P. CLASS

commences

THURSDAY, 26th July '56

Theory is held on Monday evenings, and Morse and Regulations on Thursday evenings from 8 to 10 p.m.

Persons desirous of being enrolled should communicate with—

Secretary W.I.A., Victorian Division, 191 Queen Street, Melbourne (Phone: MY 1087) or the Class Manager on either of the above evenings.

C.W. BANDS: 3500-3550, 7000-7050, 14000-14100, 21000-21100, 28000-28100

usual with a repeat on 80 mx on Sunday evening. Bert said that he will try to do this and will be back on the air on Monday.

When he has completed modifications to the keying circuit he will possibly be conducting regular, slow move sessions for the help of those who are having trouble to get full tickets and for associates who need that Morse. Bert has an excellent "flat," being the holder of a first class operator's licence and is ready to pound away on the key. You must realise the position he is in, he's taking on this work while he is "answered under" with work on the completion of his home. He is even using part of his lunch hour at work to do work on the GO9s. Can anyone beat that guy?

You have all received the Questionnaire in the June "A.R." and Council suggests that you fill it in and return it to the Box so that the forms can be sent to F.E. Unless F.E. knows what views you have on the matter, he can't make a 2 mx band, their hands are tied. So let's have those filled-in Questionnaires.

You have probably heard, the UA Has now closed its doors. The UA has been closed since the 1st of May. Tibby 4HR had quite a good QSO with one of the Russians on 20 mx phone. Now possibly the UA will be open again. The UA is now on Zones 1B, 17, 18, and 19 for that "hard-to-get" W.A.Z. Certificate.

Recently a lady rang your Secretary at work and asked him to take his XYL to his private secretary takes all my calls, you silly twisted girl." The lady spluttered and explained that she only wanted to know if the W.I.A. wanted the State Service Union Rooms to be booked regularly each month and that she wasn't "a silly twisted girl." A hurried apology was made and the lady was told that the State Service Union Rooms for our general meetings. How red was a human face yet?

Why does the top 20 of 20 mx so vacant? Everyone crowds into the low end of the band and neglects 14500 Kc. to 14500 Kc. What a waste of space. The cause is, of course, that we have if they tried to get another 50 Kc. from us. "The Hams don't want that 50 Kc. of their band, give it to us" would go over in a big way at the next International Telecommunications Conference, which is coming up soon. So, if you don't want another 50 Kc. taken from us, do something; use your hands or you know what will happen.

The DX on 8 mx, reported last month, has gone even further; the JA stations have broken into the 8 mx band and are now being placed in Chile and Argentina. Though a signal of a couple of hundred microvolts is necessary to read out up to 100,000 in the city area, in the "Grange area" those JA signals would have really caused havoc to viewers. Can't the authorities realise the mistake they are making in taking 8 mx from us or has the decision been made by non-technical persons? We don't want to be taken for agitators, but we all have a vote and have the right to approach our representatives of the House of Representatives. If a Ham in each Federal Electorate told his Member about this break through of so many stations into the 8 mx band, and if channel 1, things would happen and a lot of questions would be asked.

The personal part was short this month and we had had a bit of rain on. Fortunately, both your scribes are active on the bands now so you will get a good swing of personal parts next month. 73, 42M and 4PB.

MARYBOROUGH

4AI been on holidays and too busy to finish half-completed projects such as v.i.d., band-switched, exciter, 42M and 4PB. He is still working to Brisbane on 2 mx, added another four elements to his beam, making it 18. He is better than ever. Yash 4B is now working a lot of time at week-ends on his tower and much welding has been done. 4BG had his ship chipped when a multimeter fell off a shelf and smashed it. 4B and 4C are now working an all-band final with a split-stator condenser, and getting results.—4BG.

A multimeter fell down hard and hit Ron on the dome. But due to his resistance

He recovered at at 4B. 4BG called on 4BJ at Bundaberg and found Vic working much DX on 15 mx with a 40 mx dipole. Ron tried the same idea and is doing a bit better. He is now working a 40 mx dipole and an all-band final with a split-stator condenser, and getting results.—4BG.

SOUTH AUSTRALIA

The general meeting was held in the usual rooms in Waymouth Street on Tuesday, 8th, with the President, John SKC, in the chair. After the roll call, Messrs. Messers, Messers, Messers, Paul, Goodridge, Williams, Crawford, Marsted and Woolledge (SBW), John introduced the first of the two lecturers for the evening. Ian SDA, took over before a bumper crowd who had come expecting some good "gen" from the members of the T.v. Technical Society.

Ian had chosen, to present to the club, the relationship of our Amateur bands to the allotted, t.v. channels. With a complete and harmonic relationship, made up in the form of a graph which was projected on to a screen, Ian explained the various channels for the two lecturers who followed him. As I hope to have this material for publication in "A.R.", later, I won't dwell on it here—as one remarked afterwards, "Crises, it gave me the holy horrors" I can gather that this section was rather telling. Ian can speak with authority in this matter as he is right in the middle of t.v. rx design at our local industry.

Phil SZAB then took up the threads and in a lighter vein proceeded to outline some of the don'ts, such as, overloading, capacity interstage coupling, etc. These were punctuated with shots from "QST" with Jeeves in suitcases and the "Radio Shack" Phil (dressed in a suit) particularly the use of tetrodes and pentode type transmitting valves such as the 607, 608, 613, 608, 616, 6Q6, 6Q7, 6Q8, 6Q9, 6Q10, 6Q11, 6Q12, 6Q13, 6Q14, 6Q15, 6Q16, 6Q17, 6Q18, 6Q19, 6Q20, 6Q21, 6Q22, 6Q23, 6Q24, 6Q25, 6Q26, 6Q27, 6Q28, 6Q29, 6Q30, 6Q31, 6Q32, 6Q33, 6Q34, 6Q35, 6Q36, 6Q37, 6Q38, 6Q39, 6Q40, 6Q41, 6Q42, 6Q43, 6Q44, 6Q45, 6Q46, 6Q47, 6Q48, 6Q49, 6Q50, 6Q51, 6Q52, 6Q53, 6Q54, 6Q55, 6Q56, 6Q57, 6Q58, 6Q59, 6Q60, 6Q61, 6Q62, 6Q63, 6Q64, 6Q65, 6Q66, 6Q67, 6Q68, 6Q69, 6Q70, 6Q71, 6Q72, 6Q73, 6Q74, 6Q75, 6Q76, 6Q77, 6Q78, 6Q79, 6Q80, 6Q81, 6Q82, 6Q83, 6Q84, 6Q85, 6Q86, 6Q87, 6Q88, 6Q89, 6Q90, 6Q91, 6Q92, 6Q93, 6Q94, 6Q95, 6Q96, 6Q97, 6Q98, 6Q99, 6Q100, 6Q101, 6Q102, 6Q103, 6Q104, 6Q105, 6Q106, 6Q107, 6Q108, 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6Q395, 6Q396, 6Q397, 6Q398, 6Q399, 6Q400, 6Q401, 6Q402, 6Q403, 6Q404, 6Q405, 6Q406, 6Q407, 6Q408, 6Q409, 6Q410, 6Q411, 6Q412, 6Q413, 6Q414, 6Q415, 6Q416, 6Q417, 6Q418, 6Q419, 6Q420, 6Q421, 6Q422, 6Q423, 6Q424, 6Q425, 6Q426, 6Q427, 6Q428, 6Q429, 6Q430, 6Q431, 6Q432, 6Q433, 6Q434, 6Q435, 6Q436, 6Q437, 6Q438, 6Q439, 6Q440, 6Q441, 6Q442, 6Q443, 6Q444, 6Q445, 6Q446, 6Q447, 6Q448, 6Q449, 6Q450, 6Q451, 6Q452, 6Q453, 6Q454, 6Q455, 6Q456, 6Q457, 6Q458, 6Q459, 6Q460, 6Q461, 6Q462, 6Q463, 6Q464, 6Q465, 6Q466, 6Q467, 6Q468, 6Q469, 6Q470, 6Q471, 6Q472, 6Q473, 6Q474, 6Q475, 6Q476, 6Q477, 6Q478, 6Q479, 6Q480, 6Q481, 6Q482, 6Q483, 6Q484, 6Q485, 6Q486, 6Q487, 6Q488, 6Q489, 6Q490, 6Q491, 6Q492, 6Q493, 6Q494, 6Q495, 6Q496, 6Q497, 6Q498, 6Q499, 6Q500, 6Q501, 6Q502, 6Q503, 6Q504, 6Q505, 6Q506, 6Q507, 6Q508, 6Q509, 6Q510, 6Q511, 6Q512, 6Q513, 6Q514, 6Q515, 6Q516, 6Q517, 6Q518, 6Q519, 6Q520, 6Q521, 6Q522, 6Q523, 6Q524, 6Q525, 6Q526, 6Q527, 6Q528, 6Q529, 6Q530, 6Q531, 6Q532, 6Q533, 6Q534, 6Q535, 6Q536, 6Q537, 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6Q1471, 6Q1472, 6Q1473, 6Q1474, 6Q1475, 6Q1476, 6Q1477, 6Q1478, 6Q1479, 6Q1480, 6Q1481, 6Q1482, 6Q1483, 6Q1484, 6Q1485, 6Q1486, 6Q1487, 6Q1488, 6Q1489, 6Q1490, 6Q1491, 6Q1492, 6Q1493, 6Q1494, 6Q1495, 6Q1496, 6Q1497, 6Q1498, 6Q1499, 6Q1500, 6Q1501, 6Q1502, 6Q1503, 6Q1504, 6Q1505, 6Q1506, 6Q1507, 6Q1508, 6Q1509, 6Q1510, 6Q1511, 6Q1512, 6Q1513, 6Q1514, 6Q1515, 6Q1516, 6Q1517, 6Q1518, 6Q1519, 6Q1520, 6Q1521, 6Q1522, 6Q1523, 6Q1524, 6Q1525, 6Q1526, 6Q1527, 6Q1528, 6Q1529, 6Q1530, 6Q1531, 6Q1532, 6Q1533, 6Q1534, 6Q1535, 6Q1536, 6Q1537, 6Q1538, 6Q1539, 6Q1540, 6Q1541, 6Q1542, 6Q1543, 6Q1544, 6Q1545, 6Q1546, 6Q1547, 6Q1548, 6Q1549, 6Q1550, 6Q1551, 6Q1552, 6Q1553, 6Q1554, 6Q1555, 6Q1556, 6Q1557, 6Q1558, 6Q1559, 6Q1560, 6Q1561, 6Q1562, 6Q1563, 6Q1564, 6Q1565, 6Q1566, 6Q1567, 6Q1568, 6Q1569, 6Q1570, 6Q1571, 6Q1572, 6Q1573, 6Q1574, 6Q1575, 6Q1576, 6Q1577, 6Q1578, 6Q1579, 6Q1580, 6Q1581, 6Q1582, 6Q1583, 6Q1584, 6Q1585, 6Q1586, 6Q1587, 6Q1588, 6Q1589, 6Q1590, 6Q1591, 6Q1592, 6Q1593, 6Q1594, 6Q1595, 6Q1596, 6Q1597, 6Q1598, 6Q1599, 6Q1600, 6Q1601, 6Q1602, 6Q1603, 6Q1604, 6Q1605, 6Q1606, 6Q1607, 6Q1608, 6Q1609, 6Q1610, 6Q1611, 6Q1612, 6Q1613, 6Q1614, 6Q1615, 6Q1616, 6Q1617, 6Q1618, 6Q1619, 6Q1620, 6Q1621, 6Q1622, 6Q1623, 6Q1624, 6Q1625, 6Q1626, 6Q1627, 6Q1628,

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Large variety, 2 or 3 gang.
8/11 each

POWER TRANSFORMERS

various types
10/- each

WIRE WOUND POTENTIOMETERS

1000, 2500 and 10,000 ohms
3/11 each

SWITCH POTENTIOMETERS

one megohm
4/11 each

PUSH BACK HOOK-UP WIRE

10 yards for 2/-

ENAMEL WIRE

27 s.w.g., 2 oz. coil, 2/- plus tax
22 s.w.g., 4 oz. coil, 3/9 plus tax
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NO MAIL ORDERS. PERSONAL SHOPPERS ONLY.

290 LONSDALE STREET, MELBOURNE

FB 3711

TV for the Amateur

Plugs & Sockets for TV Aerial Terminations by BELLING AND LEE

A complete range of twin feeder and co-axial transmission line plugs and sockets is provided for Amateur and TV services by Belling and Lee Ltd., as under:

Plugs and Sockets for Twin Feeder

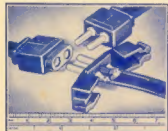
Co-axial Outlet Sockets

Co-axial Outlet Sockets



L783/P—Free plug for twin feeder.
L783/S—Fixed socket.

These inexpensive plugs and sockets were designed for use with unscreened balanced twin feeder as employed in television and short wave installations. Accepts 50 or 150 ohm feeders. L783-J—Free socket. This is similar to L783/P, but is fitted with socket inserts as in L677/J.



L783/J—Free socket.
L677/P—Free plug for twin ribbon feeder.

Designed for use with 300 ohm unscreened twin ribbon feeder as used for short wave work and television. Conductors are pinched in the spalls on the solid pins and the "butterfly" type moulding folds over the feeder.

Special slots grip the cover over the cable conductors.

Interchangeable with L783/P and /S, and L789.



L139—Outlet socket box for 80 or 150 ohm feeder.
L791—For 300 ohm feeder.

A skirting board termination for unscreened balanced twin aerial feeder. L733/S forms the outlet socket which will take L733/P or L677/P.



L133—Outlet socket box.
An improved surface mounted outlet box designed primarily for use with aerial installations. Will accommodate feeders up to 5/16 in. diam. The appropriate range, L1329, L734/P and L781. This box is also suitable for certain laboratory and test bench installations.

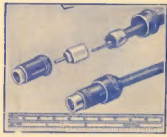


L763—Double outlet box.

This box has two standard outlet sockets and is complete with a "star" matching network which provides the coupling between the incoming cable and the outlets. When two receivers are connected, the input to each is 5 db. down on the input to the box. Designed for use in demonstration rooms, workshops and laboratories, etc., or where neighbours wish to share a television aerial installation. The appropriate range of plugs is listed under L1329, L734/P and L781.



L734/P and L1329—Standard free plugs.
L734/S—Fixed socket.



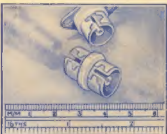
L781/P—Free plug, insulated.



L734/J/AL—Free socket.

Belling and Lee range of plugs L734/P, L781/P and L1329 conform to the draft R.E.C.M. Specification for television inlets. In addition to these requirements they are also designed to meet the various recommended methods of correct loading. In L734/P and L781/P the pin is retained in the insulator. L1329 has a hinged moulding to enable the pin to be withdrawn for soldering and/or crimping.

Complementary sockets for above range of plugs are L734/S, L694/S (fixed) and L734/J (free).



L616—Adapter.
L694/S—Fixed socket.

A particularly useful application is for the aerial input circuit to car radio installations. The co-axial cable designed expressly for this purpose loads perfectly into this lug. The sockets are suitably designed to hold the plug against vibration and are cadmium plated.

The fixed socket L694/S is the complementary mating member to our co-axial plug. A flush mounting type, L734/S, is also available.

Australian Factory Representatives:

R. H. CUNNINGHAM PTY. LTD., 118 Wattletree Road, Armadale, Vic.